Notice of Allowability	Application No.	Applicant(s)
	10/749,904	LI ET AL.
	Examiner	Art Unit
	TUAN A. PHAM	2618
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Application filed on 12</u>	<u>2/29/2003</u> .	·
2. The allowed claim(s) is/are <u>1-33</u> .		
 3. Acknowledgment is made of a claim for foreign priority una) a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF ation is deficient.
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• •
3. ⊠ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Dat 7. ⊠ Examiner's Amendr	te
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Attorney of record Ann McCrackin on 12/01/2006.
- 3. The application has been amended as follows:

In the claims:

In claim 5, line 1, before "comprising", insert – of calibrating a wireless access point --.

In claim 8, line 1, before "comprising", insert – of calibrating a wireless access point --.

In claim 8, line 11, before "approximately", insert – gain ratio --.

In claim 8, line 11, after "second output data", insert – gain ratio ---.

In claim 12, line 1, before "comprising", insert – of calibrating a wireless access point --.

In claim 15, line 1, before "comprising", insert – of calibrating a wireless access point --.

(End of Amendment)

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REASONS FOR ALLOWANCE

- 4. Claims 1-33 are allowed over the prior art of record.
- 5. The following is an examiner's statement of reasons for allowance:

Ketchum et al. (U.S. Pub. No.: 2005/0135403, hereinafter, "Ketchum") teaches a method of calibration of transmit and receive chains at the access point and adjust a gain in the transmission and reception.

Chesson (U.S. Patent No.: 6,795,407) teaches a method of calibration of receive side at the access point and adjust a gain in the receiver.

Walton et al. (U.S. Pub. No.: 2004/0146016) teaches a multi mode terminal in a wireless MIMO system. Calibration of the downlink and uplink of transmit and receive chains of the access point and adjust a gain in the transmission and reception.

Wallace et al. (U.S. Pub. No.: 2005/0128953) teaches a channel calibration of a downlink and the uplink of transmit and receive chains.

However, the prior art made of record, alone or in combination, fails to clearly teach or fairly suggest a method and an apparatus of calibrating a wireless access point, which includes first and second antennas subsystem, first and second transmit and receive chains wherein calibrating includes adjusting a gain of at least one of the first antenna subsystem and the second antenna subsystem so that a first gain ratio between the first transmit chain and the first receive chain approximately equals a second gain ratio between the second transmit chain and the second receive chain, in combination with other limitations, as specified in the independent claims 1, 5, 8, 12, 15,

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20, 24, 27, and 31, and further limitations of their respective dependent claims 2-4, 6-7, 9-11, 13-14, 16-19, 21-23, 25-26, 28-30, and 32-33.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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December 2, 2006

Examiner

T⊯an Pham

Supervisory Patent Examiner Technology Center 2600

Matthew Anderson